



robatherm ATEX unit.

Disposal.

December 2025

English - Translation of the original instructions

Air handling units for potentially explosive atmospheres | TI-50

the air handling company

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 SCAN ME

You can find the currently valid version of these instructions, and further instructions, on our website at www.robatherm.com/manuals.

This leaflet is based on the generally accepted engineering standards at the time of drafting. Since the printed version is not subject to change control, the current version must be requested from robatherm or downloaded from the Internet at www.robatherm.com before application.

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Content subject to change.

To improve readability, this document does not use male, female, and non-binary pronouns (m/f/d). All pronouns apply equally to all genders.

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General remarks

Information about these instructions

These instructions will facilitate safe and efficient use of the AHU.



All persons working on the AHU must thoroughly read and understand these instructions before starting any kind of work.

Safe working is dependent on adhering to all safety information and instructions.

Further information

The instructions describe all the available options. Whether and which options are available in the AHU depends on the options selected and the country for which the AHU is intended. The illustrations serve as an example and may differ.

The instructions comprise several parts and are structured as follows:

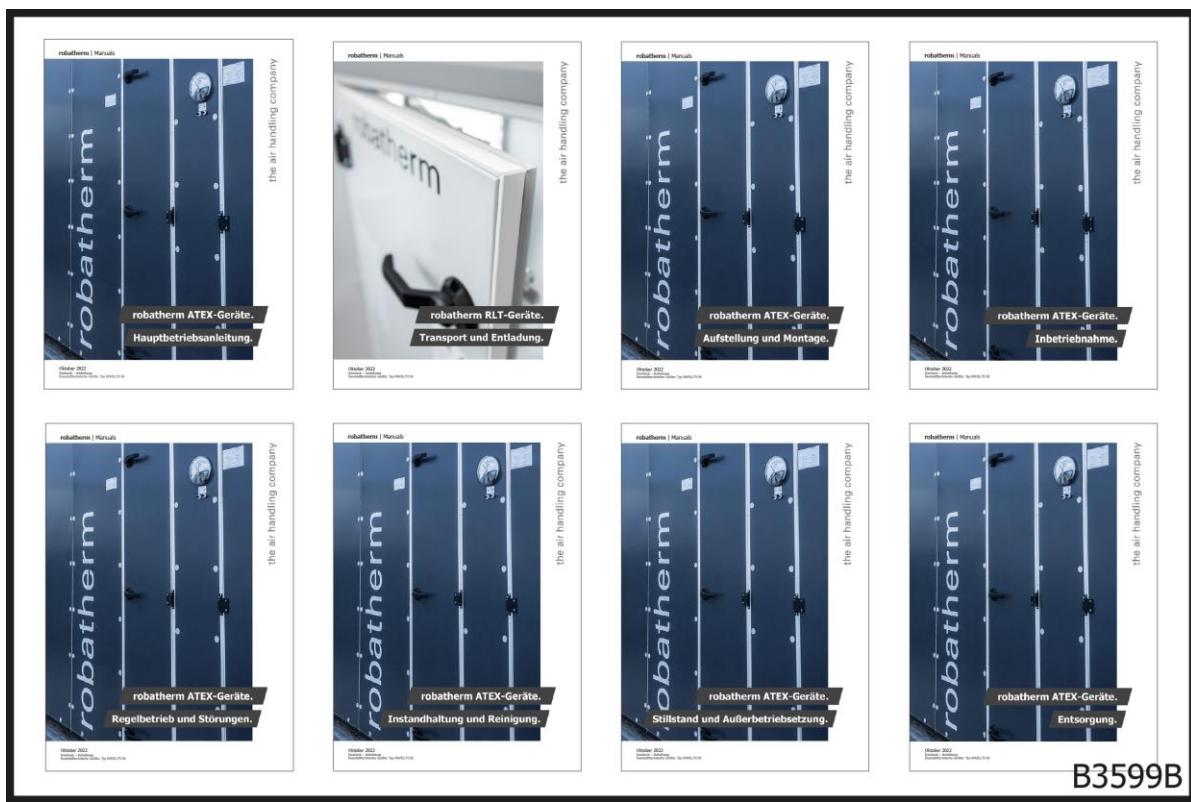


Fig. 1: Parts of the instructions

Main operating instructions

- Transportation and unloading
- Installation and assembly
- Commissioning
- Operation and malfunctions
- Maintenance and cleaning
- Shutdown and disabling
- Disposal

Disposal

Local regulations must be observed when disposing of components and waste to protect the environment and conserve resources.

At the end of its service life, the AHU must be dismantled by an authorized specialist company. To avoid injuries or material damage when dismantling the AHU, the precautions described for the individual components and the individual information provided by the component manufacturers must be observed.

Security

Hazards from explosive atmosphere

WARNING



Risk of explosion from explosive atmosphere

There is a risk of explosion, as the AHU may convey a potentially explosive atmosphere.

- Purge the AHU with fresh air before opening to remove any potentially explosive atmosphere.
- Only open the AHU if it is certain that there is no potentially explosive atmosphere.
- Follow the instructions in the operating instructions.

WARNING



Risk of explosion from explosive atmosphere

There is a risk of explosion, as the AHU may convey a potentially explosive atmosphere. In conjunction with a source of ignition, this may result in an explosion.

- Use electrostatically dissipative safety footwear.
- Use electrostatically dissipative protective clothing.
- Use tools complying with DIN EN 1127-1 Annex A.
- Do not take sources of ignition into the danger zone (e.g. hot surfaces, spark discharge, naked flame).
- Alternatively: gauge the danger zone to eliminate a potentially explosive atmosphere.

WARNING



Risk of explosion when AHU not running

There is a risk of explosion, as the AHU may convey a potentially explosive atmosphere. When not in operation, the concentration of the potentially explosive atmosphere can change both in the AHU and in the machine room due to leakages.

- Purge the AHU with fresh air before opening to remove any potentially explosive atmosphere.
- Use electrostatically dissipative safety footwear.
- Use electrostatically dissipative protective clothing.
- Use tools complying with DIN EN 1127-1 Annex A.

WARNING**Risk of explosion from electrostatic discharge**

Cleaning the AHU with a dry cloth may cause a static charge. The discharge and the resulting sparks may cause an explosion.

- Only wipe the AHU with a damp cloth.
- Follow the instructions in the operating instructions.

General hazards

WARNING



Danger to life from falling!

If a grate above an air opening is overloaded downwards (>400kg), this will cause the structure to fail. When a person steps on the grate, the structure may fail, causing a risk to life by falling through the air opening.

- Do not exceed the maximum load ($\leq 400\text{kg}$ or 2 persons).

WARNING



Danger to life from falling!

Removing the grates in the floor causes a risk to life from falling, as the opening in the floor is exposed.

- When working on air openings with removed grates, the customer must provide protection against falling.
- After the work, mount the grates again according to the instructions.

WARNING



Risk to life from falling objects

Risk to life from being struck by falling objects.

- Cordon off the endangered area under the opening to secure persons against falling objects.
- After the work, mount the grates again according to the instructions.

WARNING



Danger to life from falling!

When stepping on the protection roof, there is a risk to life from falling, as the protection roof is unsuitable for supporting loads.

- Do not enter the protection roof.

NOTE



Material damage due to localized weight

If more than one person enters the AHU at a time or localized loads are otherwise applied, pans and floors may be deformed.

- Do not let several persons enter the AHU at the same time.
- If this becomes necessary, take suitable measures to distribute the weight (e.g., grates, wooden boards, wood beams).

Personnel qualification

The work described in this section may only be performed if the person has the following qualifications:

- Waste disposal and recycling company and waste and recycling specialist
- Qualified person in accordance with pressure equipment regulation
- Qualified person in explosion protection
- Qualified electrician
- Qualified electrician in explosion protection
- Mechanic
- Person trained in explosion protection

Filter component

CAUTION



Allergic reactions to skin, eyes, or respiratory tract due to contact with filter dust

Filters may be contaminated with viruses, bacteria, or fungi. When removing the filters, there is a risk of allergic reactions to skin, eyes, or respiratory tract.

- Comply with work instructions.
- Wear protective clothing, gloves, safety glasses, and respiratory protection.
- Avoid contaminating the environment.

Silencer

CAUTION



Allergic reactions to skin, eyes, or respiratory tract due to contact with splitters

Splitters may be contaminated with viruses, bacteria, or fungi. When removing the silencers, there is a risk of allergic reactions to skin, eyes, or respiratory tract.

- Comply with work instructions.
- Wear protective clothing, gloves, safety glasses, and respiratory protection.
- Avoid contaminating the environment.

Components and equipment

All parts and operating materials (e.g. oils, brine, batteries) must be disposed of in accordance with local regulations.

Electronic waste, metal and plastic parts are to be separated by type and recycled to conserve resources.

Panel sections are made of polyvinyl chloride (PVC).

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